

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the present application:

1. (Currently amended) A machine implemented method for collecting information from a storage server managed by use of a multi-appliance management application (MMA), the method comprising:

using an agent to scan the storage server and to collect information regarding files stored by the storage server, wherein the agent is a separate device from the storage server and the MMA;

summarizing the information and creating a summary by using the agent; ~~and~~
storing the summary on a database server; and
outputting the summary to a user interface.

2. (Original) The method of claim 1, further comprising analyzing the files and generating statistics regarding the files.

3. (Original) The method of claim 1, further comprising analyzing the files and generating a table and a histogram regarding the files.

4. (Previously presented) The method of claim 2, wherein the statistics comprise a number of files, a size of files, and an average access time of files.

5. (Previously presented) The method of claim 1, further comprising transferring the summary to the MMA before storing the summary on the database server.
6. (Original) The method of claim 3, further comprising accessing the table and the histogram using a graphical user interface (GUI).
7. (Original) The method of claim 6, wherein accessing further comprises accessing the table and the histogram over the Internet.
8. (Original) The method of claim 1, wherein collecting information comprises using a file thread to examine files and using a directory thread to examine directories.
9. (Currently amended) A machine readable medium having stored thereon executable program code which, when executed, causes a machine to perform a method for collecting information from a storage server managed by a multi-appliance management application (MMA), the method comprising:
- scanning the storage server and collecting information regarding files stored by the storage server, wherein the storage server, the MMA, and the machine are separate devices; ~~and~~
- summarizing the information and creating a summary, and storing the summary on a database server; and
- outputting the summary in response to a user's request at the MMA.

10. (Previously presented) The machine readable medium of claim 9, wherein the method further comprises analyzing the files and generating statistics regarding the files.

11. (Previously presented) The machine readable medium of claim 9, wherein the method further comprises analyzing the files and generating a table and a histogram regarding the files.

12. (Previously presented) The machine readable medium of claim 10, wherein the statistics comprise a number of files, a size of files, and an average access time of files.

13. (Previously presented) The machine readable medium of claim 9, wherein the method further comprises transferring the summary to the MMA before storing the summary on the database server.

14-15. (Canceled)

16. (Original) The machine readable medium of claim 9, wherein collecting information comprises using a file thread to examine files and using a directory thread to examine directories.

17. (Currently amended) An apparatus comprising:

~~a server coupled to a mass storage device;~~

a multi-appliance management application (MMA) to manage a the-server
coupled to a mass storage device;

an agent coupled to the server and the MMA, the agent to scan the mass storage device and to create a summary including cumulative statistics about data on the mass storage device, wherein the agent, the MMA, and the server are separate devices; and

a database server coupled to the MMA and the agent to store the summary.

18. (Original) The apparatus of claim 17, further comprising a monitor coupled to the agent and the database server to display the summary.

19. (Original) The apparatus of claim 17, wherein the server is a file server.

20. (Original) The apparatus of claim 17, wherein the server has a first file system and the agent has a second file system, the first file system is different from the second file system.

21. (Original) The apparatus of claim 17, wherein the summary includes histogram information about file system usage by file types.

22. (Original) The apparatus of claim 19, wherein the file server includes files stored in directories.

23. (Original) The apparatus of claim 22, wherein the summary includes cumulative information about the directories.

24. (Currently amended) A method for collecting information from a file server comprising:

at a multi-appliance monitoring application (MMA), monitoring the file server; ~~and~~

at the MMA, instructing an agent to scan the file server, wherein said agent is

configured to execute a machine implemented method ~~scan~~-comprising:

collecting information regarding files stored by the file server;

summarizing the information and creating a summary; and

transmitting the summary to the MMA; ~~and~~

~~storing the summary on a database server~~

receiving the summary at the MMA,

wherein the agent, the MMA, and the file ~~server~~server are separate devices.

25. (Original) The method of claim 24, wherein the summary includes statistics regarding the files and the file server.

26. (Original) The method of claim 25, wherein the statistics include a number of files, a size of files, and an average access time of files.

27. (Original) The method of claim 24, wherein storing the summary further comprises storing the summary in a table.

28. (Original) The method of claim 24, wherein storing the summary further comprises storing the summary in a histogram.

29. (Canceled)

30. (Currently amended) A method for offloading tasks from a management server that manages a storage server, the method comprising:

using an agent in place of the management server to scan the storage server, to collect information regarding files stored by the storage server and to summarize the collected information into a summary, wherein the agent is a separate device from the management server and the storage server; and

storing the summary into a database for retrieval.

31. (Previously presented) The method of claim 30 further comprising using the agent in place of the management server to analyze the files and generate statistics regarding the files.

32. (Previously presented) The method of claim 30, wherein the management server comprises a multi-appliance monitoring application (MMA).

33. (New) The method of claim 1, the agent, the storage server and the MMA communicate over one or more networks.

34. (New) A method comprising:

distributing a plurality of agent devices over one or more networks;

collecting, by the agent devices, information about data maintained by one or more storage servers over the one or more networks; and

sending the collected information from the agent devices to a multi-appliance management application (MMA), wherein each of the agent devices, the MMA, and the one or more storage servers are separate devices.

35. (New) The method of claim 34, wherein the agent devices, while collecting the information from the storage servers, use a file system that the storage servers do not use for maintaining the files.

36. (New) The method of claim 34, wherein one or more of the agent devices uses a file system different from a file system that one or more of the other agents use.

37. (New) A system comprising:

a multi-appliance management application (MMA) to manage one or more storage servers over one or more networks; and

a plurality of agents distributed over the one or more networks, the plurality of agents collecting information about data maintained by the one or more storage servers and sending the collected information to the MMA,

wherein each of the plurality of agents, the MMA, and the one or more storage servers are separate devices.

38. (New) The system of claim 37, wherein one or more of the plurality of agents, while collecting the information from the one or more storage servers, use a file system that the one or more storage servers do not use for maintaining the files.

39. (New) The system of claim 37, wherein one or more of the plurality of agents uses a file system different from a file system that one or more of the other agents use.